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Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) An electronic circuit for decoding a read signal from an optical storage medium, the electronic circuit comprising:

~~a limit equalizer for amplification of high frequency read signal components without substantially increasing inter symbol interference, providing an equalized read signal having an amplitude signal level and an intermediate signal level,~~

means for determining a required intermediate signal level based on a detected amplitude level,

means for detecting an actual intermediate signal level of the equalized read signal,

control means for adapting the high boost coefficient of the limit equalizer based on a comparison of the required intermediate signal level and the actual equalized read signal; and,

~~a Viterbi detector being coupled to an output of the limit equalizer for providing~~
provides the decoded read signal.

2. (Previously Presented) The electronic circuit according to claim 1, wherein the limit equalizer having an adjustable high boost coefficient for amplification of the high frequency read signal components and means for adapting the high boost coefficient based on the decoded read signal provided by the Viterbi detector and the equalized read signal provided by the limit equalizer.

3. (Cancelled)

4. (Currently Amended) The electronic circuit according to claim ~~3~~ 1, wherein the means for determining the required intermediate signal level comprising an envelope detector for detecting the actual amplitude.

5. (Currently Amended) The electronic circuit according to claim ~~3~~ 1, wherein the control means comprising an integrator for integration of a deviation between the required intermediate signal level and the actual equalized read signal provided by the limit equalizer.

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6. (Previously Presented) The electronic circuit according to claim 1, wherein the optical storage medium being a blu-ray disc.

7. (Currently Amended) An electronic device for reading an optical storage medium, the electronic device comprising:

means for providing a read signal from the optical storage medium, a limit equalizer ~~for amplification of high frequency read signal components without substantially increasing inter symbol interference,~~ providing an equalized read signal having an amplitude signal level and an intermediate signal level,

means for determining a required intermediate signal level based on a detected amplitude level,

means for detecting an actual intermediate signal level of the equalized read signal,

control means for adapting the high boost coefficient of the limit equalizer based on a comparison of the required intermediate signal level and the actual equalized read signal; and,

a Viterbi detector ~~being coupled to an output of the limit equalizer for providing the decoded read signal.~~

8. (Currently Amended) A method for reading an optical storage medium to provide a decoded signal, the method comprising the steps of:

~~providing of a read~~ reading a signal from the optical storage medium,

~~equalising of the read signal by means of a limit equalizer for amplification of high frequency read signal components without substantially increasing inter symbol interference,~~ to have an amplitude level and an intermediate signal level,

determining a required intermediate signal level based on a detection of the amplitude level,

determining an actual intermediate signal level of the equalized signal,

determining a deviation signal based on the actual intermediate signal level and the required intermediate signal level to provide an adapted high boost co-efficient for equalising the signal; and,

performing a Viterbi detection on the equalized read signal to provide the decoded read signal.

9. (Currently Amended) The method according to claim 8 further comprising adapting a high boost co-efficient for amplification of the high frequency read signal components based on the decoded read signal and the equalized read signal.

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10. (Currently Amended) The method according to claim 8 wherein the ~~equalized read signal having an amplitude level and an intermediate signal level, the method comprising:~~ determining a required intermediate signal level based on a detection of the amplitude level, determining an actual intermediate signal level of the equalized read signal, determining a deviation signal based on the actual intermediate signal level and the required intermediate signal level, further comprising integrating of the deviation signal to provide an the adapted high boost co-efficient.

11. (Currently Amended) Computer program product, ~~such as digital readable storage medium having code to execute decoding of a read signal from an optical storage medium in an electronic device comprising: program means for decoding a read signal from an optical storage medium by the steps of: providing of a read signal from the optical storage medium,~~
equalising of the read signal by means of a limit equalizer for amplification of high frequency read signal components without substantially increasing inter-symbol interference, to have an amplitude level and an intermediate signal level,
determining a required intermediate signal level based on a detection of the amplitude level,
determining an actual intermediate signal level of the equalized read signal,
determining a deviation signal based on the actual intermediate signal level and the required intermediate signal level to provide an adapted high boost co-efficient for equalising the read signal; and,
performing a Viterbi detection on the equalized read signal to provide the decoded read signal in the electronic device.